Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	03October 2022
Team ID	PNT2022TMID49696
Project Name	Real Time River Water Monitoring and Control system
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User access	1.Accepting all the terms and conditions. 2.Confirmation of recaptcha.
FR-4	User mode	Online
FR-5	User alert	Alert SMS to the registered mobile number if the measured value crosses the threshold value.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	1.Ease and convenience usage 2.User- friendly 3.Easy to get into
NFR-2	**Security**	1.Accepting Terms and Conditions. 2.Confirmation via Email and OTP. 3.Confirmation via recaptcha. 4.Strong cryptography skills. 5.Software security architects also have experience with malware, intrusion detection and prevention and firewalls.
NFR-3	**Reliability**	1.System adequacy and system security. 2.Software operating without failure while in a specified environment over a set duration of time
NFR-4	**Performance**	1. Measuring water usage 2. Rapid performance 3.Quick to access
NFR-5	**Availability**	Easy installation
NFR-6	**Scalability**	1.Monitoring the water quality, encouraging a clean and healthy aquatic ecosystem.